```
Exp. Name: Write a C program to find the Sum of individual digits of a given
S.No: 16
                                                                                            Date:2023-01-10
           number
```

Aim:

Write a program to find the sum of individual digits of a given number.

At the time of execution, the program should print the message on the console as:

```
Enter an integer :
```

For example, if the user gives the **input** as [1234]:

```
Enter an integer: 1234
```

then the program should **print** the result as:

```
The sum of digits of the given number 1234 = 10
```

Note: Do use the **printf()** function with a **newline** character $(\n$) at the end.

Source Code:

LoopExample4.c

```
#include<stdio.h>
void main()
   int i,sum=0,rem;
   printf("Enter an integer : ");
   scanf("%d",&i);
   int num=i;
   while(num!=0)
      rem=num%10;
      sum=sum+rem;
      num=num/10;
   printf("The sum of digits of the given number d = d^n,i,sum;
}
```

Execution Results - All test cases have succeeded!

```
Test Case - 1
```

User Output

Enter an integer : 345

The sum of digits of the given number 345 = 12

Test Case - 2

User Output

Enter an integer : 6543

The sum of digits of the given number 6543 = 18

Test Case - 3

Page No: 2

ID: 22K61A05B1

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User Output Enter an integer : 96584 The sum of digits of the given number 96584 = 32